Create the following tables.

1) PUBLISHER( PID , PNAME ,ADDRESS ,STATE ,PHONE ,EMAILID );

2) BOOK( ISBN ,BOOK\_TITLE , CATEGORY , PRICE , COPYRIGHT\_DATE , YEAR ,PAGE\_COUNT,PID );

3) AUTHOR(AID,ANAME,STATE,CITY ,ZIP,PHONE,URL )

Solve following queries by SQL

1. Retrieve city, phone, url of author whose name is ‘CHETAN BHAGAT’.

2. Retrieve book title, price, author name and url for publishers ‘MEHTA’.

3. In a PUBLISHER relation change the phone number of ‘MEHTA’ to 123456

4. Calculate and display the average, maximum, minimum price of each publisher.

5. Delete details of all books having a page count less than 100.

6. Retrieve details of all authors residing in city Pune and whose name begins with character ‘C’.

7. Retrieve details of authors residing in same city as ‘Korth’.

8. Find books with a copyright date before 2010:

ANS

1

-- Create the PUBLISHER table

CREATE TABLE PUBLISHER (

PID INT PRIMARY KEY,

PNAME VARCHAR(100),

ADDRESS VARCHAR(200),

STATE VARCHAR(50),

PHONE VARCHAR(15),

EMAILID VARCHAR(100)

);

-- Create the BOOK table

CREATE TABLE BOOK (

ISBN INT PRIMARY KEY,

BOOK\_TITLE VARCHAR(100),

CATEGORY VARCHAR(50),

PRICE DECIMAL(10, 2),

COPYRIGHT\_DATE DATE,

YEAR INT,

PAGE\_COUNT INT,

PID INT,

FOREIGN KEY (PID) REFERENCES PUBLISHER(PID)

);

-- Create the AUTHOR table

CREATE TABLE AUTHOR (

AID INT PRIMARY KEY,

ANAME VARCHAR(100),

STATE VARCHAR(50),

CITY VARCHAR(50),

ZIP VARCHAR(10),

PHONE VARCHAR(15),

URL VARCHAR(100)

);

2

SELECT CITY, PHONE, URL

FROM AUTHOR

WHERE ANAME = 'CHETAN BHAGAT';

3

SELECT b.BOOK\_TITLE, b.PRICE, a.ANAME, a.URL

FROM BOOK b

JOIN PUBLISHER p ON b.PID = p.PID

JOIN AUTHOR a ON b.ISBN = a.AID -- Assuming there's a relationship between ISBN and AID

WHERE p.PNAME = 'MEHTA';

4

UPDATE PUBLISHER

SET PHONE = '123456'

WHERE PNAME = 'MEHTA';

5

SELECT p.PNAME,

AVG(b.PRICE) AS Average\_Price,

MAX(b.PRICE) AS Max\_Price,

MIN(b.PRICE) AS Min\_Price

FROM PUBLISHER p

JOIN BOOK b ON p.PID = b.PID

GROUP BY p.PNAME;

6

DELETE FROM BOOK

WHERE PAGE\_COUNT < 100;

7

SELECT \*

FROM AUTHOR

WHERE CITY = 'Pune'

AND ANAME LIKE 'C%';

8

SELECT \*

FROM AUTHOR

WHERE CITY = (SELECT CITY FROM AUTHOR WHERE ANAME = 'Korth');

9

SELECT \*

FROM BOOK

WHERE COPYRIGHT\_DATE < '2010-01-01';